**Name: Period:**

**Community & Populations Chart**

**Community Observations:**

(Information about the *entire soccer field*; use all 5 senses)

1. **Population 1 Observations:**

(Information about *independent soccer field location*; use all 5 senses)

**Population 1 Total # Grass blades = \_\_\_\_\_\_\_\_\_**

1. **Population 2 Observations:**

(Information about *independent soccer field location*; use all 5 senses)

**Population 2 Total # Grass blades = \_\_\_\_\_\_\_\_\_**

1. **Population 3 Observations:**

(Information about *independent soccer field location*; use all 5 senses)

**Population 3 Total # Grass blades = \_\_\_\_\_\_\_\_\_**

**Community of Total Grass Blades Size Estimation**

**Formula**

\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_ + \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_ /3 = \_\_\_\_\_\_\_

(Pop 1) (Pop 2) (Pop 3) (Sum) (Avg. Pop)

\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_

(Avg. Pop) (Size of soccer field) (Estimated total blades of grass on soccer field)

**Bar Graph 3 Populations**



**Line Graph 3 Populations**



**Questions to be Answered:**

1. **Why do you think there were different totals of blades of grass from each population totaled?**
2. **How is a population different from a community?**

**Community & Populations Chart KEY**

**Community Observations:**

(animals, plants, interesting items)

* Rectangle; white lines cornering the borders; 2 soccer nets on each side
* Smells wet and dewey; like a perfect sunny day
* Green grass blades; areas of dirt, dry grass near soccer nets
* Blue sky; approximately 65-70 degrees Fahrenheit
* Gnats, mosquitoes, ants, small insects
* Grass blades feel rough; short in length;

**Population 1 Observation:**

* Area need soccer net on left
* Dry grass blades to the touch; lots of dirt
* Small insects

**Population 1 Total # Grass blades = 65**

**Population 2 Observations:**

* Towards middle section of soccer field
* Green grass blades; filled in, clumpy
* Several ants crawling on blades

**Population 2 Total # Grass blades = 157**

**Population 3 Observations:**

* Patch of grass towards left corner where sidelines meet
* Green grass blades; clumpy, yet with areas of space

**Population 3 Total # Grass blades = 139**

**Community of Total Grass Blades Size Estimation**

**Formula**

65 + 157 + 139 = 361 /3 = 120.3 blades

120.3 blades X 871 ft. = 104781.3 total blades grass on the soccer field

**Bar Graph 3 Populations**



**Line Graph 3 Populations**



**Questions to be Answered:**

1. **Why do you think there were different totals of blades of grass from each population totaled?** Each area is completely different! This could be due to amount of sunlight, water, differing temperatures, what organisms move to those locations, what organisms use those locations, how the grounds are used and interacted upon by others, etc…
2. **How is a population different from a community?** A community is groups of populations at a specific time and place.